ABSTRACT OF THE DISCLOSURE

Cylindrical electrodes are embedded in a piezoelectric sheet of an actuator unit. An axial length of each of the electrodes is somewhat shorter than half a thickness of the piezoelectric sheet, and accordingly the electrodes do not penetrate through the sheet. The piezoelectric sheet is polarized in a surface direction parallel to a surface thereof. When the electrodes take a positive potential, an electric field is applied to the piezoelectric sheet in the surface direction, the actuator unit including the piezoelectric sheet is so curved as to swell upward, because there is produced a difference between respective amounts of extension in the surface direction of an upper portion of the sheet in which the electrodes are provided and a lower portion of the same in which no electrodes are provided.